

Refine Search

Search Results -

Terms	Documents
L6 and L1	3

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

Search History

DATE: Sunday, January 21, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	spatial same object\$1 same manipulation	564	<u>L1</u>
<u>L2</u>	L1 and (hierarchical same tree\$1)	24	<u>L2</u>
<u>L3</u>	L2 and thesaurus	0	<u>L3</u>
<u>L4</u>	L1 and thesaurus	2	<u>L4</u>
<u>L5</u>	715/514.ccls.	409	<u>L5</u>
<u>L6</u>	715/762-763.ccls.	862	<u>L6</u>
<u>L7</u>	L5 and L1	0	<u>L7</u>
<u>L8</u>	L6 and L1	3	<u>L8</u>

END OF SEARCH HISTORY

Hit List

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6509912 B1

L8: Entry 1 of 3

File: USPT

Jan 21, 2003

US-PAT-NO: 6509912

DOCUMENT-IDENTIFIER: US 6509912 B1

TITLE: Domain objects for use in a freeform graphics system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	------------	--------	------	-----------	-------

☐ 2. Document ID: US 6326962 B1

L8: Entry 2 of 3

File: USPT

Dec 4, 2001

US-PAT-NO: 6326962

DOCUMENT-IDENTIFIER: US 6326962 B1

TITLE: Graphic user interface for database system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	------------	--------	------	-----------	-------

☐ 3. Document ID: US 5966126 A

L8: Entry 3 of 3

File: USPT

Oct 12, 1999

US-PAT-NO: 5966126

DOCUMENT-IDENTIFIER: US 5966126 A

TITLE: Graphic user interface for database system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	------------	--------	------	-----------	-------

Terms

Documents

L6 and L1

3

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

[First Hit](#) [Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 24 of 24 returned.

☐ 1. Document ID: US 20060288014 A1

L2: Entry 1 of 24

File: PGPB

Dec 21, 2006

PGPUB-DOCUMENT-NUMBER: 20060288014

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060288014 A1

TITLE: Method and software for mobile data collection having managed workflow

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 2. Document ID: US 20060200253 A1

L2: Entry 2 of 24

File: PGPB

Sep 7, 2006

PGPUB-DOCUMENT-NUMBER: 20060200253

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060200253 A1

TITLE: Internet appliance system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 3. Document ID: US 20060155398 A1

L2: Entry 3 of 24

File: PGPB

Jul 13, 2006

PGPUB-DOCUMENT-NUMBER: 20060155398

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060155398 A1

TITLE: Adaptive pattern recognition based control system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 4. Document ID: US 20060136402 A1

L2: Entry 4 of 24

File: PGPB

Jun 22, 2006

PGPUB-DOCUMENT-NUMBER: 20060136402

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060136402 A1

TITLE: Object-based information storage, search and mining system method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 5. Document ID: US 20060064396 A1

L2: Entry 5 of 24

File: PGPB

Mar 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060064396

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060064396 A1

TITLE: Liver disease diagnosis system, method and graphical user interface

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 6. Document ID: US 20050204385 A1

L2: Entry 6 of 24

File: PGPB

Sep 15, 2005

PGPUB-DOCUMENT-NUMBER: 20050204385

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050204385 A1

TITLE: Processing and presentation of infomercials for audio-visual programs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 7. Document ID: US 20050193425 A1

L2: Entry 7 of 24

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050193425

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050193425 A1

TITLE: Delivery and presentation of content-relevant information associated with frames of audio-visual programs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 8. Document ID: US 20050193408 A1

L2: Entry 8 of 24

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050193408

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050193408 A1

TITLE: Generating, transporting, processing, storing and presenting segmentation information for

<http://jupiter:9000/bin/gate.exe?f=TOC&state=bl0dco.3&ref=2&dbname=PGPB,USPT,USOC,EPAB,JPAB,D...> 1/21/07

audio-visual programs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 9. Document ID: US 20050131660 A1

L2: Entry 9 of 24

File: PGPB

Jun 16, 2005

PGPUB-DOCUMENT-NUMBER: 20050131660

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050131660 A1

TITLE: Method for content driven image compression

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 10. Document ID: US 20050116925 A1

L2: Entry 10 of 24

File: PGPB

Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050116925

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050116925 A1

TITLE: Multidimensional input device for navigation and selection of virtual objects, method for controlling a computer unit, and computer system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 11. Document ID: US 20050057576 A1

L2: Entry 11 of 24

File: PGPB

Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050057576

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050057576 A1

TITLE: Geometric space decoration in graphical design system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	-----------	-------

☐ 12. Document ID: US 20030128205 A1

L2: Entry 12 of 24

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030128205

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030128205 A1

TITLE: User interface for a three-dimensional browser with simultaneous two-dimensional display

<http://jupiter:9000/bin/gate.exe?f=TOC&state=bl0dco.3&ref=2&dbname=PGPB,USPT,USOC,EPAB,JPAB,D...> 1/21/07

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 13. Document ID: US 20030059107 A1

L2: Entry 13 of 24

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030059107

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030059107 A1

TITLE: Method and system for automated grouping of images

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 14. Document ID: US 7006881 B1

L2: Entry 14 of 24

File: USPT

Feb 28, 2006

US-PAT-NO: 7006881

DOCUMENT-IDENTIFIER: US 7006881 B1

TITLE: Media recording device with remote graphic user interface

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 15. Document ID: US 6993180 B2

L2: Entry 15 of 24

File: USPT

Jan 31, 2006

US-PAT-NO: 6993180

DOCUMENT-IDENTIFIER: US 6993180 B2

TITLE: Method and system for automated grouping of images

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030059107 A1

March 27, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	-----------	-------

☐ 16. Document ID: US 6956973 B1

L2: Entry 16 of 24

File: USPT

Oct 18, 2005

US-PAT-NO: 6956973

DOCUMENT-IDENTIFIER: US 6956973 B1

TITLE: Image compression

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Drawings	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	------	-----------	-------

☐ 17. Document ID: US 6912293 B1

L2: Entry 17 of 24

File: USPT

Jun 28, 2005

US-PAT-NO: 6912293

DOCUMENT-IDENTIFIER: US 6912293 B1

TITLE: Photogrammetry engine for model construction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Drawings	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	------	-----------	-------

☐ 18. Document ID: US 6747651 B1

L2: Entry 18 of 24

File: USPT

Jun 8, 2004

US-PAT-NO: 6747651

DOCUMENT-IDENTIFIER: US 6747651 B1

**** See image for Certificate of Correction ****

TITLE: System and method for creating bounding volume hierarchies utilizing model simplification

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Drawings	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	------	-----------	-------

☐ 19. Document ID: US 6714201 B1

L2: Entry 19 of 24

File: USPT

Mar 30, 2004

US-PAT-NO: 6714201

DOCUMENT-IDENTIFIER: US 6714201 B1

TITLE: Apparatuses, methods, computer programming, and propagated signals for modeling motion in computer applications

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Drawings	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	------	-----------	-------

☐ 20. Document ID: US 6640145 B2

L2: Entry 20 of 24

File: USPT

Oct 28, 2003

US-PAT-NO: 6640145

DOCUMENT-IDENTIFIER: US 6640145 B2

TITLE: Media recording device with packet data interface

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Drawings	Claims	KVMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	------	-----------	-------

☐ 21. Document ID: US 6629065 B1

L2: Entry 21 of 24

File: USPT

Sep 30, 2003

US-PAT-NO: 6629065

DOCUMENT-IDENTIFIER: US 6629065 B1

TITLE: Methods and apparata for rapid computer-aided design of objects in virtual reality and other environments

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	--------	------	-----------	-------

☐ 22. Document ID: US 6445823 B1

L2: Entry 22 of 24

File: USPT

Sep 3, 2002

US-PAT-NO: 6445823

DOCUMENT-IDENTIFIER: US 6445823 B1

TITLE: Image compression

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	--------	------	-----------	-------

☐ 23. Document ID: US 6028608 A

L2: Entry 23 of 24

File: USPT

Feb 22, 2000

US-PAT-NO: 6028608

DOCUMENT-IDENTIFIER: US 6028608 A

TITLE: System and method of perception-based image generation and encoding

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	--------	------	-----------	-------

☐ 24. Document ID: NA9404375

L2: Entry 24 of 24

File: TDBD

Apr 1, 1994

TDB-ACC-NO: NA9404375

DISCLOSURE TITLE: Method for Geo-Referencing an Octree Data Structure

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, April 1994, US

VOLUME NUMBER: 37

ISSUE NUMBER: 4A

PAGE NUMBER: 375 - 376

SECURITY: Use, copying and distribution of this data is subject to the restrictions in the Agreement For IBM TDB Database and Related Computer Databases. Unpublished - all rights reserved under the Copyright Laws of the United States. Contains confidential commercial information of IBM exempt from FOIA disclosure per 5 U.S.C. 552(b) (4) and protected under the Trade Secrets Act, 18 U.S.C. 1905.

COPYRIGHT STATEMENT: The text of this article is Copyrighted (c) IBM Corporation 1994. All rights reserved.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	----------	--------	------	-----------	-------

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms	Documents
L1 and (hierarchical same tree\$1)	24

Display Format: -[Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Refine Search

Search Results -

Terms	Documents
L1 and confirmation	1

Database:

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database

EPO Abstracts Database

JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

Refine Search

Recall Text



Clear

Interrupt

Search History

DATE: Sunday, January 21, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
	<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<u>L1</u>	(spatial same data same relationship\$1) and definition data and feature\$1 and outline\$1 and (hierarchical same structure\$1)	13	<u>L1</u>
<u>L2</u>	L1 and (display\$3 same object propert\$3)	0	<u>L2</u>
<u>L3</u>	L1 and confirmation	1	<u>L3</u>

END OF SEARCH HISTORY



USPTO

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

 Search: ☒ The ACM Digital Library ☐ The Guide

graphical hierarchical flowchart\$3

SEARCH

THE ACM DIGITAL LIBRARY


[Feedback](#) [Report a problem](#) [Satisfaction survey](#)
Terms used **graphical hierarchical flowchart\$3**

Found 11,399 of 196,780

Sort results by

relevance



Display results

expanded form



Save results to a Binder

Search Tips

☐ Open results in a new window
Try an [Advanced Search](#)Try this search in [The ACM Guide](#)

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale ☐ ☐ ☐ ☐ ☐

1 [Hierarchical modeling in a graphical simulation system](#)

Robert F. Gordon, Edward A. MacNair, Kurtiss J. Gordon, James F. Kurose

December 1990 **Proceedings of the 22nd conference on Winter simulation WSC' 90****Publisher:** IEEE PressFull text available: pdf(553.30 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Hierarchical object nets—a methodology for graphical modeling of discrete event systems](#)

Carsten Thomas

December 1993 **Proceedings of the 25th conference on Winter simulation WSC '93****Publisher:** ACM PressFull text available: pdf(719.48 KB) Additional Information: [full citation](#), [references](#)

3 [Modeling business processes with simulation tools](#)

Bruce Gladwin, Kerim Tumay

December 1994 **Proceedings of the 26th conference on Winter simulation WSC '94****Publisher:** Society for Computer Simulation InternationalFull text available: pdf(684.42 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [System development methodologies and tools: possible influences and implications](#)

Jane M. Carey, Raymond McLeod

October 1986 **Proceedings of the twenty-second annual computer personnel research conference on Computer personnel research conference CPR '86****Publisher:** ACM PressFull text available: pdf(648.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Persons developing computer-based information systems have a variety of basic methodologies and tools from which to choose. What factors possibly influence selection? And, once a methodology or tool is selected, what are its possible influences on the development process or the resultant operational system? A study of computer-using firms in Texas sheds light on these fundamental questions.

5 [PLG: a graphics package for producing three-dimensional hierarchical graphics on personal computers](#)

Mitchell Krell

November 1993 **ACM SIGSMALL/PC Notes**, Volume 19 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(589.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper attempts to introduce a model for three-dimensional computer graphics in personal computers (PC). It introduces a design based on the Programmers Hierarchical Interactive Graphics System (PHIGS) and suggests some methods for achieving this design on PCs.

6 Hierarchical graphics databases in sort-first



Carl Mueller

October 1997 **Proceedings of the IEEE symposium on Parallel rendering PRS '97**

Publisher: ACM Press

Full text available:  [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: MIMD, computer image generation, hierarchical graphics database, parallel computing, sort-first


7 PICTUREBALM: A LISP-based graphics language system with flexible syntax and hierarchical data structure



Gary B. Goates, Martin L. Griss, Gary J. Herron

July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques SIGGRAPH '80**, Volume 14 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(410.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

PICTUREBALM is a portable, interactive, LISP-based language system for graphics applications programming. PICTUREBALM's design and initial experimental implementation is described from the point of view of both the user and the language system implementor. The approach of extending a LISP-based language by adding graphical operations was chosen because many of the recognized requirements for graphics programming languages are standard features of LISP-like systems. Future work is proposed. < ...

Keywords: BALM, Data structures, Geometric modeling, Graphics languages, LISP


8 Fast and accurate hierarchical radiosity using global visibility



Frédo Durand, George Drettakis, Claude Puech

April 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(8.48 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent hierarchical global illumination algorithms permit the generation of images with a high degree of realism. Nonetheless, appropriate refinement of light transfers, high quality meshing, and accurate visibility calculation can be challenging tasks. This is particularly true for scenes containing multiple light sources and scenes lit mainly by indirect light. We present solutions to these problems by extending a global visibility data structure, the Visibility Skeleton. This extension ...

Keywords: discontinuity meshing, form factor calculation, global illumination, global visibility, hierarchical radiosity, hierarchical triangulation, perception

**Point-based computer graphics**

Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias Zwicker

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04****Publisher:** ACM PressFull text available: pdf(8.94 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

This course introduces points as a powerful and versatile graphics primitive. Speakers present their latest concepts for the acquisition, representation, modeling, processing, and rendering of point sampled geometry along with applications and research directions. We describe algorithms and discuss current problems and limitations, covering important aspects of point based graphics.

10 Hierarchical triangulation for multiresolution surface description

Leila De Floriani, Enrico Puppo

October 1995 **ACM Transactions on Graphics (TOG)**, Volume 14 Issue 4**Publisher:** ACM PressFull text available: pdf(3.89 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new hierarchical triangle-based model for representing surfaces over sampled data is proposed, which is based on the subdivision of the surface domain into nested triangulations, called a hierarchical triangulation (HT). The model allows compression of spatial data and representation of a surface at successively finer degrees of resolution. An HT is a collection of triangulations organized in a tree, where each node, except for the root, is a triangulation refining a face ...

Keywords: hierarchical subdivision, multiresolution surface model, terrain model, triangulation

11 A unified approach for hierarchical adaptive tessellation of surfaces

Luiz Velho, Luiz Henrique de Figueiredo, Jonas Gomes

October 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 4**Publisher:** ACM PressFull text available: pdf(1.08 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper introduces a unified and general tessellation algorithm for parametric and implicit surfaces. The algorithm produces a hierarchical mesh that is adapted to the surface geometry and has a multiresolution and progressive structure. The representation can be exploited with advantages in several applications.

Keywords: adapted meshes, geometric modeling, implicit surfaces, multiresolution representations, parametric surfaces, polygonization, surface approximation

12 Hierarchical RLE level set: A compact and versatile deformable surface representation

Ben Houston, Michael B. Nielsen, Christopher Batty, Ola Nilsson, Ken Museth

January 2006 **ACM Transactions on Graphics (TOG)**, Volume 25 Issue 1**Publisher:** ACM PressFull text available: pdf(727.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article introduces the Hierarchical Run-Length Encoded (H-RLE) Level Set data structure. This novel data structure combines the best features of the DT-Grid (of Nielsen and Museth [2004]) and the RLE Sparse Level Set (of Houston et al. [2004]) to provide both optimal efficiency and extreme versatility. In brief, the H-RLE level set employs an RLE in a dimensionally recursive fashion. The RLE scheme allows the compact storage of sequential nonnarrowband regions while the dimensionally recurs ...

Keywords: Level set methods, adaptive distance fields, computational fluid dynamics, deformable surfaces, geometric modeling, implicit surfaces, mesh scan conversion, morphology, shape

13 Improving graphical information system model use with elision and connecting lines



Jouni Huotari, Kalle Lyytinen, Marketta Niemelä

March 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11 Issue 1

Publisher: ACM Press

Full text available: pdf(217.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Graphical information system (IS) models are used to specify and design IS from several perspectives. Due to the growing size and complexity of modern information systems, critical design information is often distributed via multiple diagrams. This slows search performance and results in reading errors that later cause omissions and inconsistencies in the final designs. We study the impact of large screens and the two promising visual integration techniques of elision and connecting lines that c ...

Keywords: Information visualization, diagrammatic representation, spatial ability, spatial memory, visual search

14 Adaptive hierarchical visibility in a tiled architecture



Feng Xie, Michael Shantz

July 1999 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardware HWWS '99**

Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: hierarchical z buffer, occlusion culling, visibility culling

15 Visibility culling using hierarchical occlusion maps



Hansong Zhang, Dinesh Manocha, Tom Hudson, Kenneth E. Hoff

August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques SIGGRAPH '97**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(597.69 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: hierarchical data structures, image pyramid, interactive display, occlusion culling, visibility culling

16 Hierarchical triangular splines



Alex Yvart, Stefanie Hahmann, Georges-Pierre Bonneau

October 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(8.91 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Smooth parametric surfaces interpolating triangular meshes are very useful for modeling surfaces of arbitrary topology. Several interpolants based on these kind of surfaces have been developed over the last fifteen years. However, with current 3D acquisition equipments, models are becoming more and more complex. Since previous interpolation methods lack a local refinement property, there is no way to locally adapt the level of

detail. In this article, we introduce a hierarchical triangular surfa ...

Keywords: Bézier patches, G^1 -continuity, Geometric modeling, arbitrary topology, hierarchical splines, interpolation, local frames, multiresolution, triangular meshes

17 How to assess the acceptability and credibility of simulation results



O. Balci

October 1989 **Proceedings of the 21st conference on Winter simulation WSC '89**

Publisher: ACM Press

Full text available: pdf(1.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The purpose of this paper is to present a comprehensive life cycle of a simulation study and guide the simulationist in conducting 10 processes, 10 phases, and 13 credibility assessment stages of the life cycle. The guidelines assist the simulation practitioners in: formulating the problem; investigating solution techniques and the system under study; formulating, representing, and programming the simulation model; designing experiments; experimenting; redefining the model; and presenting the si ...

18 On the emulation of flowcharts by decision tables



Art Lew

December 1982 **Communications of the ACM**, Volume 25 Issue 12

Publisher: ACM Press

Full text available: pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Any flowchart can be emulated by a decision table, whose complexity depends on that of the flowchart. It may be necessary, however, to introduce a new control variable with associated tests and sets or to permit changes in execution sequences provided action-test independence holds. Two measures of decision table complexity are discussed and interrelated. Finally, conditions and procedures for reducing complexity are presented.

Keywords: conversion of flowcharts, tabular programming language

19 Hierarchical Z-buffer visibility



Ned Greene, Michael Kass, Gavin Miller

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques SIGGRAPH '93**

Publisher: ACM Press

Full text available: pdf(162.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Z buffer, octree, pyramid, spatial coherence, temporal coherence

20 Locally adapted hierarchical basis preconditioning



Richard Szeliski

July 2006 **ACM Transactions on Graphics (TOG) , ACM SIGGRAPH 2006 Papers SIGGRAPH '06**, Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(445.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



mov(24:29 MIN)

This paper develops locally adapted hierarchical basis functions for effectively preconditioning large optimization problems that arise in computer graphics applications such as tone mapping, gradient-domain blending, colorization, and scattered data interpolation. By looking at the local structure of the coefficient matrix and performing a recursive set of variable eliminations, combined with a simplification of the resulting

coarse level problems, we obtain bases better suited for problems wit ...

Keywords: GPU acceleration, Poisson blending, colorization, computational photography, fast PDE solution, multilevel techniques, parallel algorithms

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)